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Claim 1 (Amended). Single- or multi-layer film having at least one layer (I) of a polyamide with nano-scale nucleating particles dispersed therein, wherein said nano-scale nucleating particles have an aspect ratio of at least 10 in two randomly selectable direction, and, as a number-weighted average, a dimension no greater than 100 nm in at least one direction that is randomly selectable for each constituent, having crystalline structures that emanate from the surface of the particles formed as a result of the layer having been cooled from a fully molten state, the amount by weight of the particles, based on the total weight of the polyamide forming the layer (I), is from 10 ppm to 2000 ppm, the polyamide forming the layer (I) contains at least 90 % polyamide 6, based on the total mass of the polyamide in that layer.

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Claim 2 (twice amended). The film of Claim 1 wherein layer (I) contains, in addition to polyamide 6, a polyamide selected from the group consisting of, polyamide 10, polyamide 12, polyamide 66, polyamide 610, polyamide 6I, polyamide 612, polyamide 6/66, polyamide 6I/6T, polyamide MXD6, polyamide 6/6I, polyamide 6/6T, polyamide 6/IPDI, copolymers of the monomers forming these polymers, and mixtures thereof.

Claim 3. Please cancel.

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Claim 9 (twice amended). The film of any one of the preceding claims further comprising one or more further polymeric layers.

B4 Claim 16 (twice amended). A method of packaging foodstuffs on a form-fill-seal machine, which comprises packaging said foodstuffs on said form-fill-seal-machine with a single- or multi-layer film of Claim 1.

Please add the following new claims:

--Claim 17. The single- or multi-layer film of claim 1, wherein said at least one layer (I) is pure polyamide 6.

B5 Claim 18. The single- or multi-layer film of claim 1, wherein the smallest constituents of said nano-scale nucleating particles forming rigid unit in the dispersion have a dimension in two randomly selectable directions that are perpendicular to each other of at least ten times the size of the constituents in the direction having the smallest dimension of the constituent.

Claim 19. The single- or multi-layer film of claim 1, wherein said particles are selected from the group consisting of phyllosilicates, montmorillonite, saponite, beidellite, nontronite, hectorite, stevensite, vermiculite, halloysite and their synthetic analogs.

Claim 20. The single- or multi-layer film of Claim 19, wherein said particles are phyllosilicates and said phyllosilicates are magnesium silicate or aluminum silicate.

Claim 21. The single- or multi-layer film of claim 1, wherein said amount of said particles is from 50 - 1000 ppm.

Claim 22. The single- or multi-layer film of claim 21, wherein said amount of said particles is from 100 - 500 ppm.

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Claim 23. A method for producing the single- or multi-layer film of Claim 1, which comprises producing said film on a flat film installation and cooling said at least one layer (I) from a fully molten state at a cooling rate of from 10° to 20°C per minute.

Claim 24. The single- or multi-layer film of claim 1, wherein said film comprises, in addition to said at least one layer (I), at least one further polyamide layer (II) containing no less than 10 ppm nano-scale nucleating agent, at least one or more EVOH-containing layer (III), at least one adhesion promoting layer (IV) and at least one single-layer sealing layer (V) on one outer side of the multi-layer film.

Claim 25. The film of Claim 24, further comprising one or more further polymeric layers.

REMARKS

This application pertains to a novel flexible, single- or multi-layer film having at least one polyamide layer containing from 10 to 2000 ppm of a nano-disperse nucleating